

Sprayer inspection checklist

CanadaGAP (good agricultural practices) requires sprayers to be calibrated, but does not specify how. Consider photocopying and laminating this checklist for repeated use with a dry-erase marker.

PUMP AND HOSES

- Leaky pump valves, diaphragms and/or plungers checked/replaced
- All hoses and fittings sound (while under pressure)
- Pump flushed and spray discharge clear
- Pump lubricated

FILTERS, STRAINERS AND NOZZLES

- All filters (tank basket, suction filter, in-line filters and nozzle strainers) clear and not damaged
- Check valve diaphragms clean and function
- All nozzles clean and unbroken
- Each nozzle shut-off and/or flip body is working

REGULATORS, GAUGES AND CONTROLS

- All gauges accurate
- Pressure and shut-off valves (ball or solenoid) work smoothly
- Regulator(s) and/or bypass valve(s) move easily
- Pressure gauge defaults to zero and does not bounce or leak

BELTS AND POWER TAKE OFF

- All belts have proper tension and no wear or cracks
- PTO greased, connection zones checked and guard in place

PROPELLER AND AGITATION

- Propeller has no nicks, cracks or residue, turns freely and has no lateral play
- Mechanical agitation shaft is supported, bearings lubricated and shaft packing suitably tight (no leaks)

AIRFLOW AND DIRECTION

- Ducts or deflectors are residue-free and can be adjusted
- Blade pitch and fan gear can be adjusted

SPRAY PRESSURE ADJUSTMENT

- Regulator/bypass adjusted to achieve desired pressure at usual tractor RPM
- Each boom operating at desired pressure for each nozzle combination

TIRES AND TANK

- Tires have correct pressure, tight bearings and no cuts
- Drain plug can be removed
- Tank has clear vents, is secure to chassis and has no punctures or damage